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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,229	08/17/2001	Kai Ahrens	30014200-1008 4840	
58328 7590 07/13/2007 SONNENSCHEIN NATH & ROSENTHAL LLP			EXAMINER	
FOR SUN MIC	CROSYSTEMS	REILLY, SEAN M		
P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER			ART UNIT	PAPER NUMBER
CHICAGO, IL			2153	
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			MAIL DATE	DELIVERY MODE
	•		07/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Ententained from many be evaluated under the provisions of 37 CFR 1.136(a). In no event, mover, may a reply be limbly filed in the provision of 37 CFR 1.136(a). In no event, mover, may a reply be limbly filed in 18 No period for reply is specified above, the maximum situation, period will apply and will expire SIX (8) MONTHS from the malling date of this communication. Failur to reply within the set or centeded period for reply will by status, cause the septication to become ARAMONDEO [30 u.S. C. § 133). Any reply received by the Office later than rines months after the malling date of this communication, even if timely filed, may reduce any sented period that many specified period for reply is specified above, the maximum status and sentence and se	Office Action Summary		Application No.	ication No. Applicant(s)				
Sean Reily - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 9 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 9 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. If NO period for reply is specified above, the maintum statutory period will apply and will applie 50(8) MONTHS from the maining date of the communication. Failure to reply which has set or extended period for reply will be patient to the application to second AbANOPURE (5 U.S. C. § 133) Each of the second patient term adjustment. See 37 CFR 1.704(5) seaned patient term adjustment. See 37 CFR 1.704(6) seaned patient term adjustment. See 37 CFR 1.704(6) seaned patient term adjustment. See 37 CFR 1.85 (a) seaned patient term adjustment. See 37 CFR 1.85 (a) seaned patient term adjustment term adjustment. See 37 CFR 1.85 (a) seaned patient term adjustment term adjustment term adjustment. See 37 CFR 1.85 (a) seaned patient term adjustment t			09/932,229	AHRENS ET AL.				
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DETAILED ACTION

This Office action is in response to Applicant's amendment and request for reconsideration filed on April 23, 2007. Claims 1-48 are presented for further examination. On April 26, 2007 an interview was conducted with Applicant. During this interview Applicant authorized claim amendments to place this application in condition for allowance. Upon further search and consideration these claims are no longer deemed allowable.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 15-28 and 34-48 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

With regard to claims 15-28 and 41-48, Applicant's specification ¶ 34 provides evidence that Applicant intends the scope of a computer readable medium or memory device to include a solid or fluid transmission medium hence, each claim is drawn to a form of energy. Energy is not one of the four categories of invention and therefore these claims are not statutory. Energy is not a series of steps or acts and thus is not a process. Energy is not a physical article or object and thus is not a machine or manufacture. Energy is not a physical article or object and thus is not a composition of matter. Note the term "tangible" as used in claims 15-28 is not given patentable weight since artisans in the art have various opinions as to the scope of this term. Applicant may overcome this rejection by removing the term *tangible* from claims 15-28 and adding the term *computer readable storage medium* to claims 15-28. Claims 41-48 are additionally rejected

under the rationale that they only recite nonfunctional descriptive material (i.e. a linked list).

When nonfunctional descriptive material is recorded on some computer-readable medium, in a computer or on an electromagnetic carrier signal, it is not statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored in a computer-readable medium, in a computer, does not make the subject matter statutory.

elements that may be implemented solely in software and are thus software per se (see inter alia, Applicant's specification ¶ 98). As recited in the interim guidelines pg 53 "computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs, are not physical 'things.' They are neither computer components nor statutory processes, as they are not 'acts' being performed" (Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" signed October 26th, 2005). No "acts" are performed because the "claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized." Thus, claims 34-48 are directed to non-statutory subject matter. Applicant may overcome this rejection by embodying the claimed computer programs on a computer readable storage medium.

Applicant is invited to review the latest "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (signed October 26th, 2005) which further clarifies computer-related nonstatutory subject matter on pages 50-57.

http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/guidelines101 20051026.pdf>

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-43, 45, and 47-48 are rejected under are rejected under 35 U.S.C. 103(a) as being unpatentable over Gheith (U.S. Patent Number 7,082,454) and Gupta et al. (U.S. Patent Number 6,553,461; hereinafter Gupta).

In considering claim 1, Gheith discloses a method in a data processing system for facilitating reuse of data blocks, the method comprising the steps of:

receiving from a client program a data block request identifying a data block (col 5, lines 29-32, receiving a URL request);

obtaining constituent data that comprises the data block (the system determines that the requested webpage is not cached and retrieves it, Col 5, lines 32-35 and Col 6, lines 18-21) and deriving a data block identifier related to the data (deriving a state signature for the data using a hash function, Col 6, lines 21-50);

determining whether the data block is a registered data block in a collection of data blocks using the data block identifier (the system determines whether the requested webpage is cached based on the state signature when a partial URL and associated state information is provided in the request, Col 4, line 55 – Col 5, line 36 and Col 6, lines 26-39);

when the data block is not a registered data block, registering the data block in the collection of data blocks (caching the document and adding it to the look-up table, Col. 6, lines 26-39);

generating a registration reference for accessing the data block (deriving a state signature for the data using a hash function, Col 6, lines 21-50); and

returning the registration reference to the client program (the computed signatures and/or state information are embedded in the requested webpage and sent to the client, Col 7, lines 3-20).

Gheith disclosed that the invention substantially as claimed however Gheith failed to explicitly recite deriving a data block identifier for the data block from the constituent data for the data block. Instead Gheith disclosed determining the identifier based on the state information and the file name requested. Nonetheless, such a scheme was widely known in the art at the time of Applicant's invention. In a similar caching system, Gupta disclosed deriving a data block identifier from the constituent data of the data block (see inter alia Gupta, Col 3, lines 47-54 and Col 5, lines 2-22). Gupta uses this hash identifier to perform a comparison with the cache entries in order to quickly tell if the particular data block is already cached (Gupta, Col 5, lines 2-22). Thus, it would have been obvious to one of ordinary skill in the art at the time of Applicant's to incorporate Gupta's data identifier comparison scheme within Gheith's system in order to provide "a quick determination of whether there is a match or not" in the cache (Gupta Col 5, lines 13-22). Furthermore since Gupta's identifiers are based on the content itself and they would provide better detection of changes to particular files when compared to Gheith's system that only identifies state information associated with a filename.

In considering claim 2, Gheith further discloses that the step of receiving comprises receiving from the client program a request data object comprising a data block identifier and at least one of the data block and a pointer to the data block (Col 7, lines 3-20, i.e. the client requests the embedded files by referring to a file identifier which is a pointer embedded in the webpage).

In considering claim 3, Gupta further discloses that the step of deriving comprises the step of generating a codeword based on the constituent data (e.g. hash value, Col 3, lines 46-64).

In considering claims 4, 5, 18, 19, 36, 42, 43, and 45, although the system taught by Acharya discloses substantial features of the claimed invention, it does not disclose that the data block identifier is derived in part based on a CRC or ADLER codeword, or a sequential request number. Nonetheless, Gheith does disclose that the link identifier is sent over a network. For the link to be sent across a network, it will necessarily need to be placed in an Internet packet. Examiner takes Official notice that the Web generally uses TCP/IP or UDP/IP packets and often uses Ethernet, and further takes Official notice that TCP and UDP use a 16-bit checksum sequential number field, while Ethernet uses CRC to ensure data reliability. Applicant further admits that the CRC and ADLER checksums are well known in the art (see ¶ 61 of specification). Thus, given the knowledge that TCP or UDP and Ethernet can be used to transport the data blocks taught by Acharya, and further given the knowledge that CRC, ADLER, and 16-bit checksums are well-known techniques, a person having ordinary skill in the

art would have readily recognized the desirability and advantages of including the CRC or ADLER checksums or a sequential 16-bit number in the identifier taught by Acharya to ensure that the data block identifier is correctly sent over the network. Therefore, it would have been obvious to include the CRC or ADLER checksum or the sequential number in the data identifier taught by Acharya.

In considering claim 6, Gheith further discloses that the step of deriving further comprises the step of deriving the data block identifier based additionally on data block characteristic information (e.g. a state signature for the data, Col 6, lines 21-50).

In considering claim 7, Gheith further discloses that the collection of data blocks is a linked list of data blocks (e.g. look-up table; Col 6, lines 21-50).

In considering claim 8, Gheith further discloses that the step of receiving comprises the step of receiving the data block request at a registration server from a requesting program (e.g. receiving the request from a client browser).

In considering claim 9, Gheith further discloses that the step of registering comprises the step of adding the data block to a linked list of additional data blocks that comprises the collection of data blocks (e.g. look-up table; Col 6, lines 21-50).

In considering claim 10, Gheith further discloses that the step of generating a registration reference comprises the step of generating one of a pointer and a handle to the data block (i.e. a link or pointer embedded in the page, Col 7, lines 3-20).

In considering claim 11, Gheith further discloses that the step of generating a registration reference comprises the step of generating a registration handle object comprising a reference to a resource allocated for the data block (i.e. a link or pointer embedded in the page, Col 7, lines 3-20).

In considering claim 12, Gheith further discloses that the resource is one of a memory area allocated for the data block and a process started in connection with the data block (i.e. a link or pointer embedded in the page, Col 7, lines 3-20).

In considering claim 13, Gupta further discloses that the step of determining comprises the step of comparing the data block identifier against additional data block identifiers for additional data blocks in the collection of data blocks (Gupta Col 5, lines 13-22).

In considering claims 15-17 and 20-27, these claims present a computer readable medium for performing the same steps as claims 1-3 and 6-13 respectively, and are thus rejected for the same reasons.

In considering claims 29 and 31, the limitations in these claims are similar to those already discussed with regard to claims 1-13, and are disclosed in the same cited sections of Acharya discussed above.

In considering claims 30, 32, and 39, Gheith further disclose releasing duplicate resources (Col 7, lines 23-31).

In considering claims 34, 40, and 41, these claims present data processing systems and a computer readable memory device for performing no additional steps over claims 1 and 9-11, and are therefore rejected for the same reasons.

In considering claim 35, this claim contains the same limitations as claim 3, and is thus rejected for the same reason.

In considering claim 37, Gheith further discloses an analysis component comprising instructions that examine the registration handle object to determine whether a client terminal received the requested data block in response to an earlier request (Col 5, lines 13-24).

In considering claims 47 and 48, Examiner takes office notice that the use of link lists (i.e. nodes with a pointer to next node) for effectively storing sets of data were widely known in the art at the time of Applicant's invention. Thus, it would have been obvious to one of ordsiary

skill in the in art at the time of Applicant's invention to store Gheith cached entries in a linked list in order to effectively store the cache entries.

Claims 44 and 46 are rejected under are rejected under 35 U.S.C. 103(a) as being unpatentable over Gheith (U.S. Patent Number 7,082,454) and Gupta et al. (U.S. Patent Number 6,553,461; hereinafter Gupta) and Copeland et al. (U.S. 6,615,235; hereinafter Copeland).

With regard to claims 44 and 46, Gheith failed to specifically recite the registration data object further comprises a plurality of client terminal identifiers each associated with a client terminal request identifier. Nonetheless associating specific pieces of content within a webpage with a particular user when caching dynamic content was widely known in the art at the time of Applicant's invention, as evidenced by at least Copeland Col 8, line 26 – Col 9, line 18). Thus, it would have been obvious to one of ordinary skill in the art to associate specific pieces of content within a webpage with a particular user when caching the content in Gheith's system, in order to help ensure that user specific only sent to the correct user.

Conclusion

2. The prior art made of record, in PTO-892 form, and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean Reilly whose telephone number is 571-272-4228. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 6, 2007

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